# plicant:

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TABANI ET AL.

Examiner:

S. CHAUDHRY

Serial No.:

10/091,201

Group Art Unit:

1746

Filed:

MARCH 5, 2002

Docket:

14605.1USI2

Confirmation No.:

6365

Notice of Allow.

OCTOBER 15, 2004

Date:

Title:

METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

**CERTIFICATE UNDER 37 CFR 1.8:** 

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 2/, 2004.

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

☐ Transmittal Sheet in duplicate containing Certificate of Mailing

□ Communication

Copy of Information Disclosure Statement mailed to United States Patent & Trademark Office on June 17, 2004

Copy of Information Disclosure Statement mailed to United States Patent & Trademark Office on March 9,

2004.

Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C. P.O. Box 2903, Minneapolis, MN 55402-0903 612.332.5300

Name: Dennis R. Daley

Reg. No.: 34,994

OIPE N 10/091,201

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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S. CHAUDHRY

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1746

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Docket No.:

14605.1USI2

Title:

METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence and the paper(s), as described herein, are being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on October 21, 2004.

Jermifer Bommen

#### **COMMUNICATION**

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This is in response to the Notice of Allowance mailed on October 15, 2004. An Information Disclosure Statement was mailed to the United States Patent and Trademark Office on March 9, 2004 and another Information Disclosure Statement was mailed to the United States Patent and Trademark Office on June 17, 2004 in regard to the above-identified patent application. Copies of both Information Disclosure Statements are enclosed. The Examiner is requested to return copies of the Form-1449 documents with the Examiner's initials next to each listed reference indicating that each listed reference has been considered.

According to PAIR, both Information Disclosur Statements have been entered into the above-identified patent application.

Respectfully submitted,

MERCHANT & GOULD P.C. P.O. Box 2903 Minneapolis, MN 55402-0903 612/332-5300

Date: October 2004

Dennis R. Daley Reg. No. 34,994

DRD:jjb

23552
PATENT TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

Docket Number: 14650.1USI2

Application Number:

10/091,201

IN AN APPLICATION
(Use several sheets if necessary)

Applicant: TABANI ET AL.
Filing Date: MARCH 5, 2002

Group Art Unit: 1746

OCT 2 5 2004

RADEN!	DOCUMENT NO.	DATE	.S. PATENT DOCUMEN NAME	CLASS	SUBCLASS	FILING	
INITIAL						IF APPRO	PRIATE
	4,517,081	05/14/1985	AMIOT ET AL.	_			
	4,695,385	09/22/1987	BOAG				
	5,344,652	09/06/1994 01/02/1996 12/31/1996 04/01/1997 06/03/1997	HALL, II ET AL.  LEVIN ET AL.  HALL II, ET AL.  HALL II, ET AL.  HALL II ET AL.				
	5,480,565						
	5,589,507						
	5,616,616						
	5,635,195						
	5,656,302	08/12/1997	COSENTINO ET AL.				
	5,698,100	12/16/1997	LEVIN ET AL.				
J.	5,714,060	02/03/1998	KENLEY ET AL.				
	5,840,343	11/24/1998	HALL II, ET AL.				
	6,179,954		KAWANA ET AL.				
	6,193,890	02/27/2001	PEDERSEN ET AL.				
	6,207,201	03/27/2001	PIACENZA				
	6,261,457	07/17/2001	WENTHOLD ET AL.				
		FOR	EIGN PATENT DOCUM	ENTS			
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						·	
	OTHER	DOCUMENTS	S (Including Author, Title, I	Date, Pertinent I	Pages, Etc.)	·	
	Leypoldt,	John K. & Cheu	ing, Alfred K., "Characteriz onal Socity for Artificial Or	ation of Molecu	lar Transport in Ar	tificial Kidne 39, January 19	ys," 96.

23552
PATENT TRADEMARK OFFICE

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

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Date	Mailed:	MARCH	_9_	, 2004

FORM	1449*

#### INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

## Docket Number:

Application Number:

14605.1USI2

10/091,201

Applicant: TABANI ET AL.

Filing Date: 03/05/2002

Group Art Unit: 1746

			U	.S. PATENT DOCUMEN	NTS	<u> </u>		
EXAMINER INITIAL	DOCUMENT NO. 4,881,563 4,902,352		DATE NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
			11/21/1989	Christian				
			02/20/1990	Christian				
			FOR	EIGN PATENT DOCUM	1ENTS			
O I P E DOCUM		UMENT NO. DATE	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	6						YES	NO
OCT 2 5 2004	5							
œ	2							
PADEMARY								
	.1	OTHER	DOCUMENTS	S (Including Author, Title,	Date, Pertinent	Pages, Etc.)		
		Azzopardi, B., "Drops in annular two-phase flow," Int. J. Multiphase Flow, Vol. 23, Suppl., pp. 1-53 (1997)						
		Barajas, A. et al., "The effects of contact angle on two-phase flow in capillary tubes," Int. J. Multiphase Flow, Vol. 19, No. 2, pp. 337-346 (1993)  Henstock, W. et al., "The Interfactial Drag and the Height of the Wall Layer in Annular Flows," AlChE Journal, Vol. 22, No. 6, pp. 990-999 (November 1976)  Hewitt, G. et al., "Annular Two-Phase Flow," Pergamon Press, pp. v-vii, 1-20, chapters 1-2 (Date Unknown)						
								E Journal,
								known)
		Klauer, J., "Piping: An examination of pipe self cleaning in high-purity water systems," <i>Ultrapure Water</i> , pp. 5 60 (March 2001)						
		Reinemann, D., "Dairy operators guide to milking machine cleaning and sanitation," Paper written for presnetation at the NRAES the Milking Systems and Parlors Conference, 8 pages (January 30, 2001)						
		Riedewald, F., "Biofilms in Pharmaceutical Waters," Pharmaceutical Engineering, 8 pages (November/December 1997)						
		Tragardh, C., "Cleaning in air-water-flow," Division of Food Engineering, Lund Engineering, Alnarp (Sweden), pp. 424-429 (Date Unknown)						
		Triplett, K. et al., "Gas liquid two-phase flow in microchannels. Part 1: two-phase flow patterns," <i>International Journal of Multiphase Flow</i> , Vol. 25, pp. 377-380, 387-393 (1999)						
		Woodman	see, D. et al., "I	Mechanism for the remova ience, Vol. 24, pp. 299-30	l of droplets from	n a liquid surface b	y a parallel ai	r flow,"

23552 PATENT TRADEMARK OFFICE

DATE CONSIDERED **EXAMINER** 

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

oplicant:

TABANI ET AL.

Examiner:

S. CHAUDHRY

Serial No.:

10/091,201

Group Art Unit:

1746

Filed:

MARCH 5, 2002

Docket:

14605.1USI2

Confirmation

No.: Title:

6365

METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

**CERTIFICATE UNDER 37 CFR 1.8:** 

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March \_\_\_\_\_\_\_, 2004.

PATENT TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

☐ Transmittal Sheet in duplicate containing Certificate of Mailing

Supplemental Information Disclosure Statement, Form 1449, 12 Reference(s)

Check(s) in the amount of \$180.00 for filing Supplemental IDS after receipt of Office Action

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Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers or any future reply, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT & GOULD P.C. P.O. Box 2903, Minneapolis, MN 55402-0903 612.332.5300

Name: Dennis R. Daley

Reg. No.: 34,994 DDaley:PLSkaw

S/N 10/091,20

#### D STATES PATENT AND TRADEMARK OFFICE

Applicant:

TABANI ET AL.

Examiner:

S. CHAUDHRY

Serial No.:

10/091,201

Group Art Unit:

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14605.1USI2

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METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

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### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(c))

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted after the mailing date of a first Office Action on-the-merits or a first Office Action after filing a Request for Continued Examination under 37 C.F.R. § 1.114 or a CPA under 37 C.F.R. § 1.53(d), but before the mailing date of: i) a final action under 37 C.F.R. § 1.113; ii) a Notice of Allowance under 37 C.F.R. § 1.311; or iii) an action that otherwise closes prosecution on the application. Enclosed is a check in the amount of \$180.00 under 37 C.F.R. § 1.17(p) for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a



Receipt is hereby acknowledged for the following in the U.S. Patent and Trademark Office:

In re Application of: TABANI ET AL.

For: METHOD FOR CLEANING HOLLOW TUBING AND FIBERS Docket No.: 14605.1USI2 Serial No.: 10/091,201

Filed: MARCH 5, 2002

Date Mailed: March \_\_\_\_\_\_\_, 2004

Transmittal Sheet in duplicate containing Certificate of Mailing Supplemental Information Disclosure Statement, Form 1449, 12 Reference(s)

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Patent

DDaley:PLSkaw

Receipt is hereby acknowledged for the following in the U.S. Patent and Trademark Office:

In re Application of: TABANI ET AL.
For: METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

Docket No.: 14605.1USI2 Serial No.: 10/091,201

Filed: MARCH 5, 2002

Date Mailed: March 9, 2004

Transmittal Sheet in duplicate containing Certificate of Mailing
Supplemental Information Disclosure Statement, Form 1449, 12 Reference(s)
Check(s) in the amount of \$180.00 for filing Supplemental IDS after receipt of Office Action

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Patent



DDaley:PLSkaw



Receipt is hereby acknowledged for the following in the U.S. Patent and Trademark Office:

In re Application of: TABANI ET AL.
For: METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

Serial No.: 10/091,201 Docket No.: 14605.1USI2

Filed: MARCH 5, 2002

**7**2004 Date Mailed: June

Transmittal Sheet in duplicate containing Certificate of Mailing

Request For Continued Examination - Please charge Dep. Acct. #13-2725 fee of \$385.00 for

Small Entity

Amendment

Information Disclosure Statement, Form 1449, 16 References

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Patent

DRD:jjb

Receipt is hereby acknowledged for the following in the U.S. Patent and Trademark Office:
In re Application of: TABANI ET AL.
For: METHOD FOR CLEANING HOLLOW TUBING AND FIBERS
Docket No.: 14605.1US12
Filed: MARCH 5, 2002
Serial No.: 10/0

Serial No.: 10/091,201

Date Mailed: June 2004

Transmittal Sheet in duplicate containing Certificate of Mailing

Request For Continued Examination - Please charge Dep. Acct. #13-2725 fee of \$385.00 for

Amendment

Information Disclosure Statement, Form 1449, 16 Ref

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Patent

#### IN THE NITED STATES PATENT AND TRADEMA LOFFICE

Applicant:

TABANI ET AL.

Examiner:

S. CHAUDHRY

Serial No.:

10/091,201

Group Art Unit:

1746

Filed:

MARCH 5, 2002

Docket:

14605.1USI2

Sonfirmation

6365

Notice of Allow.

MARCH 17, 2004

Date:

Title:

METHOD FOR CLEANING HOLLOW TUBING AND FIBERS

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VA 22313-1450 on June 2004.

By: Name Jennifer Bommentre

Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

23552
PATENT TRADEMARK OFFICE

Sir:

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☐ Transmittal Sheet in duplicate containing Certificate of Mailing

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MERCHANT & GOULD P.C. P.O. Box 2903, Minneapolis, MN 55402-0903 612.332.5300 By: Name: Dennis R. Daley

Reg. No.: 34,994

PATENT

10/091,201

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

TABANI ET AL.

Examiner:

S. CHAUDHRY

Serial No.:

10/091,201

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By: Name: Ennifer Bommentre

#### **INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))**

Mail Stop RCE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

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In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicant(s) do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,

MERCHANT & GOULD P.C. P.O. Box 2903 Minneapolis, MN 55402-0903 (612) 332-5300

Date: June/7, 2004

23552

PATENT TRADEMARK OFFICE

Dennis R. Daley Reg. No. 34,994

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Date: Marsh 9 2004

Dennis R. Daley Reg. No. 34,994

DRD:PLSkaw

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